WHAT IS CLAIMED IS:

1. An imaging apparatus including at least an imaging device having a plurality of photoelectric transfer devices arranged in matrix-shape to detect a light irradiated to each photoelectric transfer device and transfer to electric signal, and imaging means for imaging an image of a photogenic object on a surface of the imaging devices,
wherein the imaging means images at least two similar images of the photogenic subject on different area of the surface of the imaging device, and the imaging apparatus further includes electric signal processing means to form one image of the photogenic subject from at least two images of the photogenic subject.

2. The imaging apparatus of Claim 1, wherein the imaging means is composd of a plurality of lens systems having the same shape or refractive index and arranged in a plane parallel to an light-receiving surface of the imaging device.

3. The imaging apparatus of Claim 2, wherein the image formation lenses composing each lens system are formed integrally.

4. The imaging apparatus of Claim 2, wherein the image formation lenses composing the lens system are formed integrally of material having a liner expansion coefficient of not more than $1\times10^{-5}/°C$.

5. The imaging apparatus of Claim 2, wherein the image formation lenses composing the lens system are bonded on a substrate

having a liner expansion coefficient of not more than $1 \times 10^{-5}/°C$.